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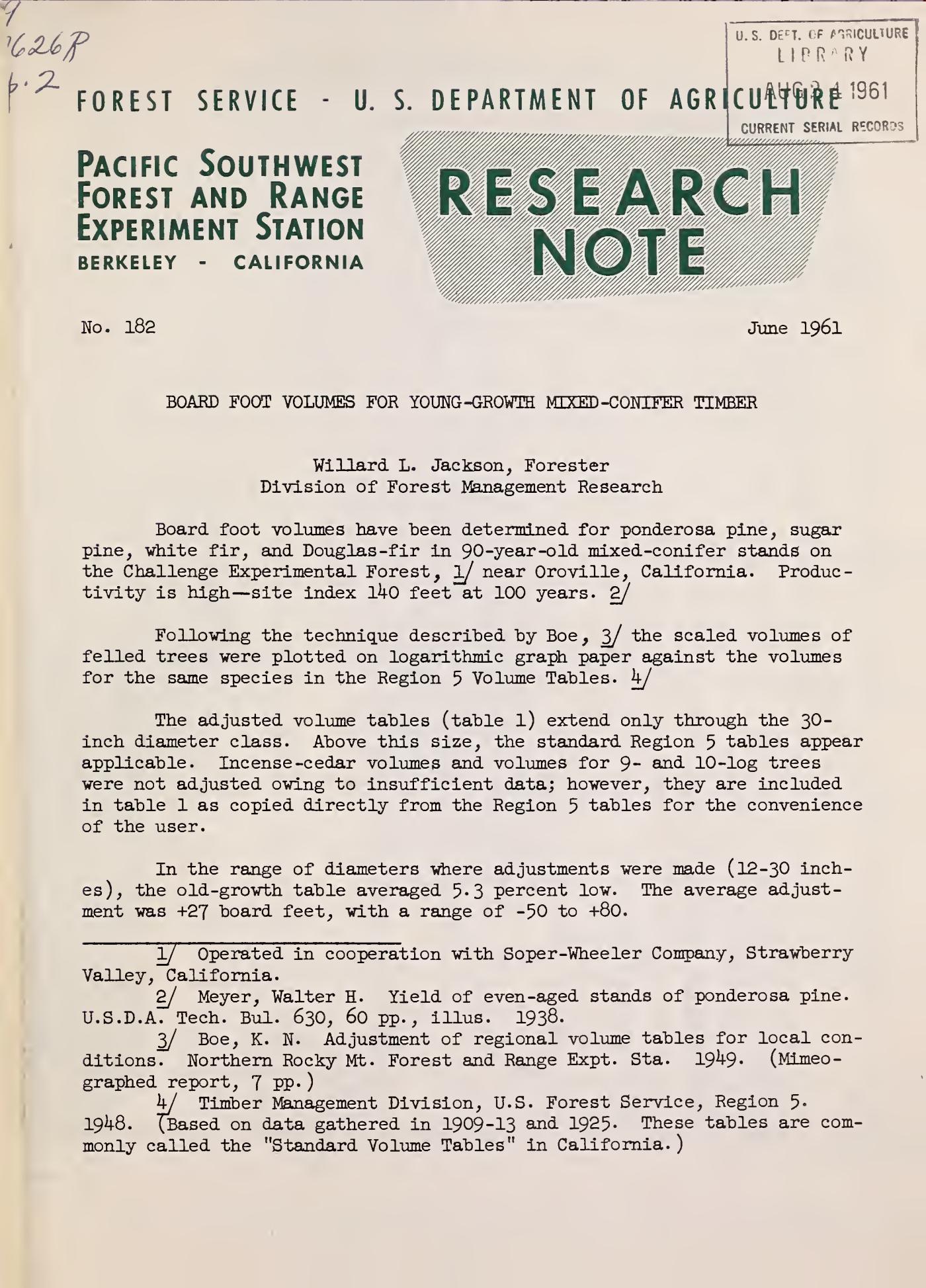


TABLE 1.
YOUNG-GROWTH MIXED-CONIFER BOARD FOOT VOLUMES

CHALLENGE EXPERIMENTAL FOREST, 1961, SITE INDEX A-200 (140 ft. at 100 yrs.)

Formed by adjusting R-5 volume tables (old-growth) on basis of local tree measurements. 12-inch stump height; 8-inch top d.i.b.; 5-inches trim allowed per 16-ft. log.

Volumes Scribner Decimal C, Board Feet in Tens

| D.b.h. and log height | Volume by species | | | | | D.b.h. and log height | Volume by species | | | | |
|-----------------------------|-------------------|----|-----|----|------------------|-----------------------------|-------------------|-----|-----|-----|------------------|
| | PP | SP | WF | DF | IC ^{1/} | | PP | SP | WF | DF | IC ^{1/} |
| 12-1 | 4 | 3 | 5 | 4 | 3 | 24-2 | 17 | 16 | 20 | 17 | 19 |
| 2 | 7 | 8 | 9 | 7 | 5 | 3 | 32 | 30 | 36 | 33 | 29 |
| 3 | 12 | 12 | 13 | 13 | 11 | 4 | 45 | 44 | 55 | 48 | 39 |
| 4 | 16 | 17 | 18 | 18 | -- | 5 | 61 | 60 | 72 | 66 | 51 |
| 5 | 22 | -- | -- | 24 | -- | 6 | 74 | 73 | 89 | 80 | -- |
| 14-1 | 5 | 4 | 6 | 4 | 4 | 7 | 88 | 88 | 105 | 95 | -- |
| 2 | 9 | 9 | 10 | 9 | 7 | 1/8 | 102 | 102 | 121 | 110 | -- |
| 3 | 14 | 14 | 16 | 15 | 13 | 9 | 117 | -- | -- | 125 | -- |
| 4 | 20 | 21 | 22 | 22 | -- | 26-2 | 20 | 19 | 22 | 19 | 23 |
| 5 | 26 | -- | 29 | 28 | -- | 3 | 36 | 34 | 43 | 38 | 34 |
| 16-1 | 6 | 4 | 6 | 5 | 5 | 4 | 52 | 50 | 64 | 55 | 45 |
| 2 | 11 | 11 | 12 | 10 | 9 | 5 | 70 | 70 | 84 | 76 | 57 |
| 3 | 16 | 16 | 19 | 18 | 15 | 6 | 87 | 88 | 104 | 92 | -- |
| 4 | 24 | 25 | 27 | 26 | -- | 7 | 103 | 103 | 125 | 110 | -- |
| 5 | 31 | 32 | 34 | 33 | -- | 1/8 | 119 | 118 | 144 | 127 | -- |
| 6 | 38 | -- | 42 | 41 | -- | 9 | 136 | 129 | 156 | 144 | -- |
| 18-1 | 7 | 5 | 7 | 5 | 7 | 28-2 | 23 | 22 | -- | 21 | 27 |
| 2 | 12 | 12 | 14 | 12 | 11 | 3 | 42 | 40 | 49 | 42 | 40 |
| 3 | 20 | 20 | 22 | 22 | 18 | 4 | 60 | 58 | 73 | 63 | 51 |
| 4 | 28 | 28 | 32 | 31 | -- | 5 | 80 | 80 | 97 | 88 | 65 |
| 5 | 37 | 37 | 42 | 40 | -- | 6 | 101 | 100 | 120 | 104 | 83 |
| 6 | 46 | 47 | 54 | 49 | -- | 7 | 120 | 118 | 144 | 126 | -- |
| 20-1 | 9 | 6 | 9 | 6 | 8 | 1/8 | 139 | 138 | 167 | 146 | -- |
| 2 | 13 | 13 | 16 | 13 | 13 | 9 | 161 | 152 | 182 | 167 | -- |
| 3 | 24 | 23 | 27 | 25 | 21 | 10 | 181 | -- | -- | 191 | -- |
| 4 | 33 | 32 | 39 | 36 | 30 | 30-2 | 27 | 25 | -- | 24 | 33 |
| 5 | 43 | 43 | 50 | 47 | -- | 3 | 49 | 46 | 55 | 47 | 46 |
| 6 | 54 | 54 | 63 | 58 | -- | 4 | 71 | 68 | 81 | 72 | 59 |
| 7 | 63 | 64 | 75 | 69 | -- | 5 | 95 | 91 | 109 | 100 | 73 |
| 22-1 | 11 | 7 | 11 | 6 | 10 | 6 | 118 | 113 | 135 | 119 | 92 |
| 2 | 15 | 14 | 18 | 15 | 16 | 7 | 140 | 136 | 162 | 143 | -- |
| 3 | 28 | 27 | 32 | 29 | 25 | 8 | 163 | 160 | 189 | 166 | -- |
| 4 | 39 | 37 | 47 | 42 | 34 | 1/9 | 192 | 176 | 207 | 190 | -- |
| 5 | 52 | 52 | 62 | 56 | 45 | 10 | 216 | 198 | 234 | 216 | -- |
| 6 | 65 | 64 | 76 | 69 | -- | | | | | | |
| 7 | 75 | 75 | 90 | 81 | -- | | | | | | |
| 8 | 86 | 86 | 104 | 95 | -- | | | | | | |

Basis: 167 ponderosa pines, 26 sugar pines, 114 Douglas-firs, and 18 white firs.

^{1/} Copied directly from R-5 Volume Tables; not adjusted due to insufficient sample.

W. L. Jackson

